

FORM PTO-1449 (Modified)

P T JC59
MAR 28 2002
U.S. PATENT & TRADEMARK OFFICELIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT(S) INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO. 00120/HG (07742-34) FILING DATE NO. 09/513,702

APPLICANT Toshikazu MUKAIHARA, et al.

FILING DATE: February 25, 2000 GROUP ART UNIT:
2877

REFERENCE DESIGNATION		U.S. PATENT DOCUMENTS				
EXAM'R INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	Subclass	Filing Date If Appropriate
(A11					

FOREIGN PATENT DOCUMENTS

EXAM'R INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	Subclass	TRANSLAT'N	
						yes	no
DAR	B17 EP-0812040-A	12/10/97	EUROPE	H01S	3/085	Already in English	
	B18 JP-5-315705-A	11/26/93	JAPAN	H01S	3/18	Abstract Only	
	B19 JP-8-201609-A	08/09/96	JAPAN	G02B	5/18	Abstract Only	
DAR	B20 JP-9-283847-A	10/31/97	JAPAN	H10S	3/18	Abstract Only, see Citation B17	

OTHER ART (Include Author, Title, Date, Pertinent Pages, Etc.)

DAR	C27	Kasukawa, et al., "High Power Semiconductor Lasers for Optical Fiber Amplifiers," Technical report of the Institute of Electronics, Information and Communication Engineers (IEICE), Vol. 96, No. 188, July 1996, pages 23-30. (In Japanese, English-Language Abstract)
	C28	Prosyk, et al., "Well Number, Length, and Temperature Dependence of Efficiency and Loss in InGaAsP-InP Compressively Strained MQW Ridge Waveguide Lasers at 1.3 μm," IEEE Journal of Quantum Electronics, Vol. 33, No. 8, August 1997.
	C29	Hamakawa, et al., "Wavelength Stabilization of 1.48 μm Pump Laser by Fiber Grating," 22-nd European Conference on Optical Communication - ECOC '96, Oslo, 1996, Vol. 1, pages 119-122.
	C30	English Translation of JP-05-206579-A, previously provided as Citation B6.
DAR	C31	Full English translation of: M. Shigehara, et al., "Single Longitudinal Mode Laser Diode using Fiber Bragg Grating," Proceedings of the 1995 of the IEICE General Conference (The Institute of Electronics, Information and Communications Engineers), March 27, 1995, page 380, previously provided as Citation C8.

EXAMINER Delta R. Flores Reuz DATE CONSIDERED 0/02

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DRA	A1	4,616,898	10/14/1986	Hicks, Jr.	350	96.15	
	A2	5,305,336	04/19/1994	Adar, et al.	372	18	
	A3	5,563,732	10/08/1996	Erdogan, et al.	359	341	
	A4	5,699,377	12/16/1997	Pan	372	92	
	A5	5,721,636	02/22/1998	Erdogan, et al.	359	341	
	A6	5,724,377	03/03/1998	Huang	372	22	
	A7	5,845,030	12/01/1998	Sasaki, et al.	385	88	
	A8	5,936,763	08/10/1999	Mitsuda, et al.	359	341	11/13/1997
	A9	5,995,525	11/30/99	Kosugi	372	36	03/31/1997
DRA	A10	5,995,692	11/30/1999	Hamakawa, et al.	385	49	06/18/1997

FOREIGN PATENT DOCUMENTS

EXAM'R INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	Subclass	TRANSLAT'N
							yes no
DRA	B1	EP-800,243-A2	10/08/97	Euro Patent Office	H01S	3/025	Already in English
	B2	JP-62-276892-A	12/01/87	Japan	H01S	3/18	Abstract Only
DRA	B3	JP-03-049281-A	03/04/91	Japan	H01S	3/18	Yes, attached

OTHER ART (Include Author, Title, Date, Pertinent Pages, Etc.)

DRA	C1	G. P. Agrawal, "Longitudinal-Mode Stabilization in Semiconductor Lasers with Wavelength-Selective Feedback," Journal of Applied Physics, Vol. 59, No. 12, June 15, 1986, pages 3958-3961.
	C2	S. Oshiba, et al., "High-Power Output Over 200mW of 1.3 μm GaInAsP VIPS Lasers," IEEE Journal of Quantum Electronics, Vol. QE-23, No. 6, June 1987, pages 738-743.
	C3	Toshio Nonaka, "Pumping Sources for Optical Fiber Amplifiers," Optronics, (published by The Optronics Co., Ltd.), No. 107, November 1990. (In Japanese, English-Language Abstract on last page).
DRA	C4	Asano, et al., "1.48μm High-Power InGaAs/InGaAsP MQW LD's for Er-Doped Fiber Amplifiers," IEEE Photonics Technology Letters, Vol. 3, No. 5, May 1991, pages 415-417.

EXAMINER Delma R. Flores RevDATE CONSIDERED 6/02

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FOREIGN PATENT DOCUMENTS [CONTINUED]

EXAM'R INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	Subclass	TRANSLAT'N	
							yes	no
DPR	B4	JP-04-343492-A	11/30/92	Japan	H01S	3/18	Yes, attached	
	B5	JP-05-136511-A	06/01/93	Japan	H01S	3/131	Yes, attached	
	B6	JP-05-206579-A	08/13/93	Japan	H01S	3/18	Abstract Only	
	B7	JP-05-206580-A	08/13/93	Japan	H01S	3/18	Abstract Only	
	B8	JP-05-327031-A	12/10/93	Japan	H01L	35/28	Abstract Only	
	B9	JP-07-333470-A	12/22/1995	Japan	G02B	6/42	Yes, attached	
	B10	JP-08-330671-A	12/13/96	Japan	H01S	3/18	Yes, attached	
	B11	JP-09-219475-A	08/19/97	Japan	H01L	23/38	Abstract Only	
	B12	JP-09-269439-A	10/14/97	Japan	G02B	6/42	Abstract Only	
	B13	JP-09-275240 -A	10/21/97	Japan	H01S	3/18	Abstract Only	
	B14	JP-09-298319-A	11/18/97	Japan	H01L	35/30	Yes, attached	
	B15	JP-10-062654 -A	03/06/98	Japan	G02B	6/42	Yes, attached	
DPR	B16	JP-11-017248-A	01/22/99	Japan	H01S	3/085	Yes, attached	

OTHER ART (Include Author, Title, Date, Pertinent Pages, Etc.) [Continued]

DPR	C5	Ikuo Mito and Kenji Endo, "1.48 μm and 0.98 μm High-Power Laser diodes for Erbium-Doped Fiber Amplifiers," <i>Optical amplifiers and their applications</i> , summaries of papers presented at the Optical Amplifiers and Their Applications Topical Meeting, July 24-26, 1991, Snowmass Village, Colorado, cosponsored by IEEE/Lasers and Electro-optics Society and the Optical Society of America, Technical digest series . 1991, v. 13, pages 22-25.
	C6	T. Higashi, et al., "Optimum Asymmetric Mirror Facets Structure for High Efficiency Semiconductor Lasers," 13th IEEE International Semiconductor Laser Conference, September 1992, Takamatsu Japan, pages 46-47
DPR	C7	C. R. Giles, et al., "Simultaneous Wavelength-Stabilization of 980-nm Pump Lasers," <i>Optical amplifiers and their applications</i> , summaries of papers presented at the Optical Amplifiers and Their Applications Topical Meeting, June 4-6, 1993, Yokohama, Japan, cosponsored by Optical Society of America and the IEEE Lasers and Electro-Optics Society, pages 380-383.

EXAMINER *Delma R. Flores Ruiz*

DATE CONSIDERED *4/22*

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OTHER ART (Include Author, Title, Date, Pertinent Pages, Etc.) [Continued]

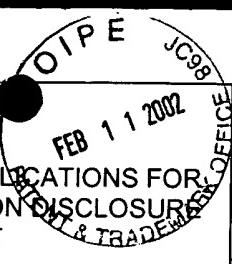
Draft	C8	M. Shigehara, et al., "Single Longitudinal Mode Laser Diode using Fiber Bragg Grating," Proceedings of the 1995 of the IEICE General Conference (The Institute of Electronics, Information and Communications Engineers), March 27, 1995, page 380 (In Japanese, Partial English-language translation attached).
	C9	T. Wakami, et al., "0.98 μm Laser Diode with Fiber Bragg Gratings," Proceedings of the 1995 Electronics Society Conference of IEICE (The Institute of Electronics, Information and Communications Engineers), September 5, 1995, page 156 (In Japanese, Partial English-language translation attached).
	C10	R. J. Campbell, et al., "A Wavelength Stable Uncooled Laser for Access Networks," Proceedings of the 21st European Conference on Optical Communications (ECOC'95), Brussels, Belgium, September 17-21, 1995, pp. 545-548.
	C11	Don Hargreaves, et al., "High-power 980-nm Pump Module Operating Without a Thermoelectric Cooler," 1996 Technical Digest Series (Conference Edition) of the Optical Fiber Communication 1996 ("OFC '96"), Optical Society of America, February 25, 1996 (San Jose California), pages 229-230.
	C12	J. Piprek, et al., "Cavity Length Effects on Internal Loss and Quantum Efficiency of Multiquantum-Well Lasers," IEEE Journal of Selected Topics in Quantum Electronics, Vol. 5, No. 3, May/June 1999, pages 643-647 (UCSB).
	C13	Akihiko Kasukawa, Tomokazu Mukaihara, Takeharu Yamaguchi, Jun'jiro Kikawa, "Recent Progress of High Power Semiconductor Lasers for EDFA Pumping," Furukawa Review, No. 19, April 2000, pages 23-28.
	C14	Akihiko Kasukawa, Tomokazu Mukaihara, Takeharu Yamaguchi, Jun'jiro Kikawa, "Recent Progress in High-Power Semiconductor Lasers for Pumping of Optical Fiber Amplifiers," Furukawa Electric Review, No. 105, January 2000, pages 13-18. (In Japanese).
	C15	Toshio Kimura, Naoki Tsukiji, Junji Yoshida, Naoki Kimura, Takeshi Aikiyo, Tetsuro Ijichi, and Yoshikazu Ikegami, "1480-nm Laser Diode Module with 250-mW Output for Optical Amplifiers (Fol 1404QQ Series)," Furukawa Review, No. 19, April 2000, pages 29-33.
	C16	Toshio Kimura, Naoki Tsukiji, Junji Yoshida, Naoki Kimura, Takeshi Aikiyo, Tetsuro Ijichi, and Yoshikazu Ikegami, "250 mW – 1480 nm Laser Diode Module for Optical Amplifiers (Fol 1404QQ Series)," Furukawa Electric Review, No. 105, January 2000, pages 19-23. (In Japanese).
	C17	Akira Mugino and Yuichiro Irie, "Output Power Optimization in 980-nm Pumping Lasers Wavelength-Locked Using Fiber Bragg Gratings," Furukawa Review, No. 19, April 2000, pages 41-46.
Draft	C18	Akira Mugino and Yuichiro Irie, "Output Power Optimization of 980-nm Pumping Lasers Wavelength-Locked Using Fiber Bragg Gratings," Furukawa Electric Review, No. 105, January 2000, pages 24-29. (In Japanese).

EXAMINER *Delma R. Flores Reviz* DATE CONSIDERED *4/02*

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<i>Dawn</i>	C19	Yoshihiro Emori and Shu Namiki, "Demonstration of Broadband Raman Amplifiers: a Promising Application of High-power Pumping Unit," Furukawa Review, No. 19, April 2000, pages 59-62.
	C20	Yoshihiro Emori and Shu Namiki, "Demonstration of Broadband Raman Amplifiers as a Promising Application of High-power Pumping Unit," Furukawa Electric Review, No. 105, January 2000, pages 42-45. (In Japanese).
	C21	Osamu Aso, Masateru Taadakuma, Shu Namiki, "Four-Wave Mixing in Optical Fibers and Its Applications," Furukawa Review, No. 19, April 2000, pages 63-68.
	C22	Osamu Aso, Masateru Taadakuma, Shu Namiki, "Four-Wave Mixing in Optical Fibers and Its Applications," Furukawa Electric Review, No. 105, January 2000, pages 46-51. (In Japanese).
	C23	Hitoshi Shimizu, Kouji Kumada, Nobumitsu Yamanaka, Norihiro Iwai, Tomokazu Mukaihara, and Akihiko Kasukawa, "Extremely Low threshold 1.3μm InAsP n-Type Modulation Doped MQW Lasers," Furukawa Review, No. 19, April 2000, pages 149-154.
	C24	Hitoshi Shimizu, Kouji Kumada, Nobumitsu Yamanaka, Norihiro Iwai, Tomokazu Mukaihara, and Akihiko Kasukawa, "Extremely Low threshold 1.3μm InAsP n-Type Modulation Doped MQW Lasers," Furukawa Electric Review, No. 104, July 1999, pages 48-52. (In Japanese).
	C25	Translation of Japanese Published Patent Application JP-09-83070, which was provided in Applicants' previous Information Disclosure Statement.
<i>Dawn</i>	C26	Translation of Japanese Published Patent Application JP-09-260766, which was provided in Applicants' previous Information Disclosure Statement.

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